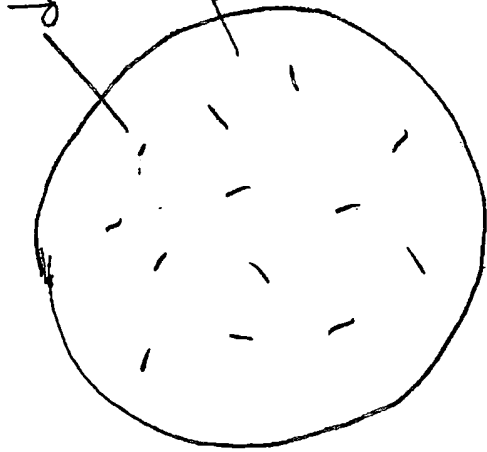
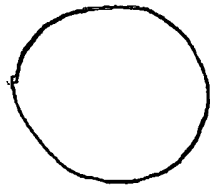


macroemulsion



diameter: eg. $5\mu\text{m}$

nanoeulsion



eg. 200 nm
diameter

13% drug
87% solvent
100% volume

$$V_{\text{dl}} = \frac{4}{3} \pi r^3$$

for radius 100 nm
 $V_{\text{dl}} = 4.2 \cdot 10^6\text{ nm}^3$



evaporation
87% of volume
($\hat{=}$ solvent)



crystalline particle
radius: 50 nm approx.

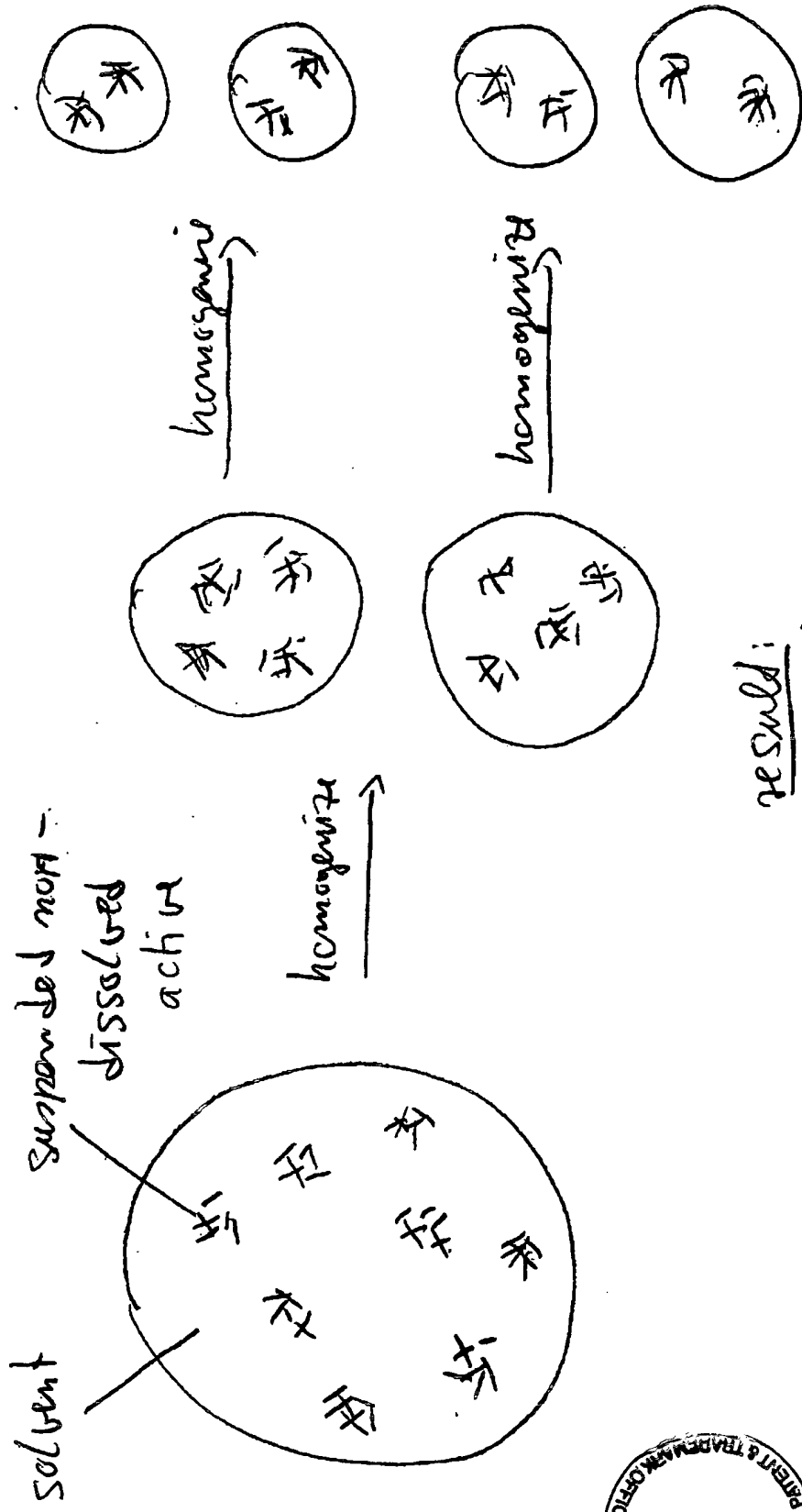
% 87%

$$V_{\text{dl}} \approx 0.53 \cdot 10^6\text{ nm}^3$$

($\hat{=}$ drug)

Fig. 1

Desai - active suspended in solvent droplets



result:

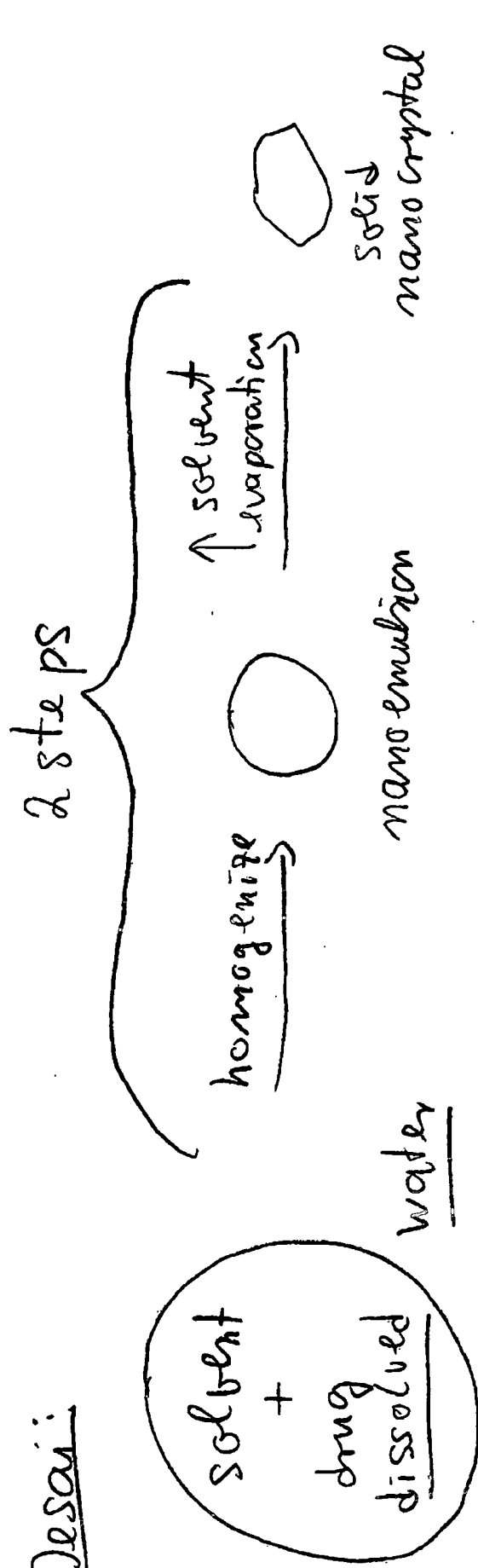
• droplet size decreases

• size suspended material unchanged

Fig. 3



Desai:



Invention

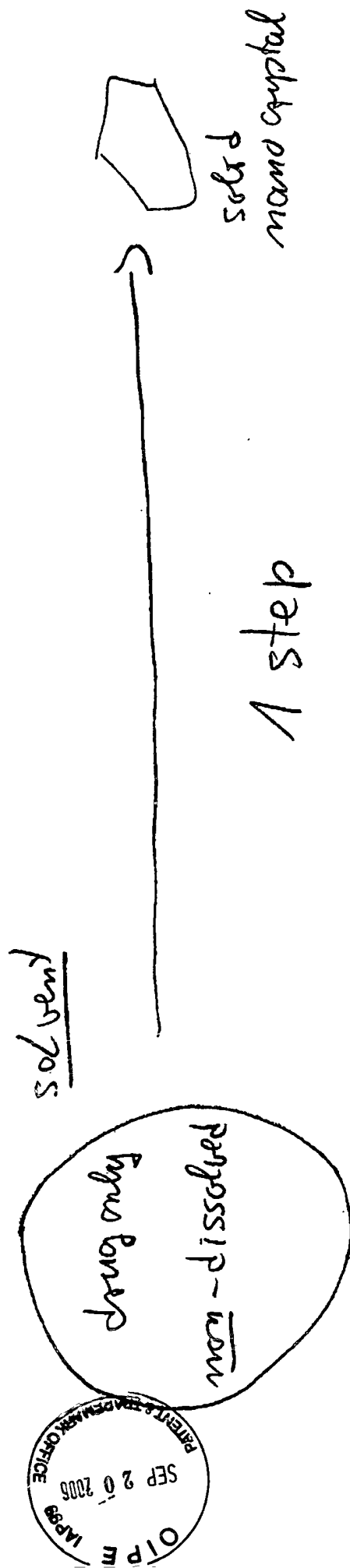


Fig. 2

